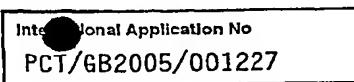
INTERNATIONAL SEARCH REPORT

Interional Application No PCT/GB2005/001227

A. CLASSIF IPC 7	H04Q7/22			
	International Patent Classification (IPC) or to both national classific	cation and IPC		
Minimum doe IPC 7	SEARCHED cumentation searched (classification system followed by classification H04Q	tion symbols)		
			-short	
Documentat	tion searched other than minimum documentation to the extent that	t such documents are included in the tields sea	irched	
Electronic d	lata base consulted during the international search (name of data t	base and, where practical, search terms used)		
EPO-In				
C. DOCUM	IENTS CONSIDERED TO BE RELEVANT			
Category *	the state of the	relevant passages	Relevant to claim No.	
Х	US 6 108 559 A (AASTROEM ET AL)		1-8	
X	22 August 2000 (2000-08-22) abstract figure 3 column 3, lines 9-13 column 3, lines 31-37 column 3, lines 48-53 column 3, lines 60-67 column 5, lines 15-41 US 6 654 589 B1 (HAUMONT SERGE) 25 November 2003 (2003-11-25) abstract figure 3 column 4, lines 36-39 column 5, lines 4-8 column 5, lines 51-63	-/	1-8	
XF	Further documents are listed in the continuation of box C.	Patent family members are lister	d in annex.	
"A" doct con "E" earl fillin "L" doct wh clt.	cument defining the general state of the art which is not insidered to be of particular relevance lier document but published on or after the international ingidate cument which may throw doubts on priority claim(s) or hich is clied to establish the publication date of another lation or other special reason (as specified) cument referring to an oral disclosure, use, exhibition or	 "T" later document published after the Information or priority date and not in conflict with clied to understand the principle or invention "X" document of particular relevance; the cannot be considered novel or can involve an inventive step when the document of particular relevance; the cannot be considered to involve an document is combined with one or ments, such combination being obtained. 	theory underlying the e claimed invention not be considered to document is taken alone e claimed invention Inventive step when the more other such docu-	
other means in the art. In the art. In the art. In the art. In the art.				
iai	ter than the priority date claimed the actual completion of the international search	Date of mailing of the international	والمستقد والمراب والمنافق والمستون	
Date of	23 June 2005	01/07/2005		
Name a	and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer MÖ11, H-P		

INTERNATIONAL SEARCH REPORT



		101/462003/00	
C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	Deleve	nt to claim No.
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Heleva	IIL TO CIGNII IVO.
A	WO 03/049461 A (INTELLPROP LIMITED; WILSON, JEFFREY) 12 June 2003 (2003-06-12) abstract figures 3,4 claim 1 page 5, line 16 - page 6, line 20		1-8
P,X	EP 1 408 705 A (TELSIS HOLDINGS LIMITED) 14 April 2004 (2004-04-14) abstract paragraph '0024! paragraphs '0027! - '0031! paragraph '0034! paragraphs '0038!, '0039! claim 1		1,2,6-8
A	US 6 101 393 A (ALPEROVICH ET AL) 8 August 2000 (2000-08-08) the whole document		

INTERNATIONAL SEARCH REPORT

PCT/GB2005/001227

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6108559	A	22-08-2000	AU BR CA WO AU CN DE EP ES FI WG	5684498 A 9807078 A 2277268 A1 9832300 A2 678310 B2 8069594 A 1116893 A ,C 69431237 D1 69431237 T2 0677232 A1 2180590 T3 953142 A 9512292 A1 85057 A1	07-08-1998 18-04-2000 23-07-1998 23-07-1998 22-05-1997 22-05-1995 14-02-1996 02-10-2002 13-03-2003 18-10-1995 16-02-2003 22-06-1995 04-05-1995 19-12-2001
US 6654589	B1	25-11-2003	FI AU CA CDE DE ES WK JP TW	973806 A 268964 T 9351598 A 2304172 A1 1110171 C 69824430 D1 69824430 T2 1018241 A2 2221993 T3 9917499 A2 1031494 A1 2001518744 T 429710 B	27-03-1999 15-06-2004 23-04-1999 08-04-1999 28-05-2003 15-07-2004 09-06-2005 12-07-2000 16-01-2005 08-04-1999 31-10-2003 16-10-2001 11-04-2001
WO 03049461	Α	12-06-2003	AU EP WO	2002356273 A1 1474934 A2 03049461 A2	17-06-2003 10-11-2004 12-06-2003
EP 1408705	A	14-04-2004	AU AU EP EP WO US	2003254717 A1 2003260743 A1 1408705 A1 1540974 A1 2004019634 A1 2005101337 A1	29-04-2004 11-03-2004 14-04-2004 15-06-2005 04-03-2004 12-05-2005
US 6101393	Α	08-08-2000	AU CA WO	1600199 A 2311335 A1 9927726 A1	15-06-1999 03-06-1999 03-06-1999

PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXA	AMINING AUTHORITY	SOUTHER	
To: MONEY E		3 1 MAR ZURB	PCT
D YOUNG & COARY			
120 Holborn London EC1N2DY GRANDE BRETAGNE 3 1 MA	R 2005	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY	
ANSO			(PCT Rule 71.1)
ENTRY	75 FP	Date of mailing (day/month/year)	29.03.2006
Applicant's or agent's file reference P021005WO		IMPORTANT NOTIFICATION	
International application No. PCT/GB2005/001227 International filing date (date) 29.03.2005		ay/month/year)	Priority date (day/month/year) 29.03.2004
Applicant INTELLPROP LIMITED et al			

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Authorized Officer

Vasilakis, S

Tel. +49 89 2399-8554



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P021005WO	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No. PCT/GB2005/001227	International filing date (day/month/year 29.03.2005	Priority date (day/month/year) 29.03.2004		
International Patent Classification (IPCINV. H04Q7/22	or national classification and IPC			
Applicant INTELLPROP LIMITED et al				
Authority under Article 35 ar	id transmitted to the applicant according to			
	total of 8 sheets, including this cover shee	et.		
3. This report is also accompa	nied by ANNEXES, comprising:			
a. 🛛 sent to the applicant	and to the International Bureau) a total of	2 sheets, as follows:		
	ntaining rectifications authorized by this A	ve been amended and are the basis of this report uthority (see Rule 70.16 and Section 607 of the		
sheets which su beyond the disc Supplemental B	osure in the international application as tile	nority considers contain an amendment that goes ed, as indicated in item 4 of Box No. I and the		
seguence listing and	onal Bureau only) a total of (indicate type a for tables related thereto, in celectronic for e Listing (see Section 802 of the Administi	and number of electronic carrier(s)) , containing a rm only, as indicated in the Supplemental Box rative Instructions).		
4. This report contains indicat	ons relating to the following items:			
☐ Box No. I Basis of t	he report			
☐ Box No. II Priority	•			
	blishment of opinion with regard to novelty	, inventive step and industrial applicability		
☐ Box No. IV Lack of u	nity of invention			
⊠ Box No. V Beasone				
	☐ Box No. VI Certain documents cited			
Box No. VII Certain defects in the international application				
☐ Box No. VIII Certain o	☐ Box No. VIII Certain observations on the international application			
Date of submission of the demand	Date of com	pletion of this report		
27.01.2006	29.03.200	06		
Name and mailing address of the int preliminary examining authority:	ernational Authorized	officer gaptiches Petentem,		
European Patent Office D-80298 Munich	e Möll, H-P			
Tel. +49 89 2399 - 0 7 Fax: +49 89 2399 - 44	x: 523656 epmu d	No. +49 89 2399-8243		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

	Box No.	. I Basis of the r	port			
1.	With regard to the language, this report is based on the international application in the language in which it w filed, unless otherwise indicated under this item.					
	whid □ i □ i	ch is the language international searcloublication of the in	translations from the original language into the following language, of a translation furnished for the purposes of: (under Rules 12.3 and 23.1(b)) ternational application (under Rule 12.4) (nary examination (under Rules 55.2 and/or 55.3)			
2.	s* of the international application, this report is based on (replacement sheets which receiving Office in response to an invitation under Article 14 are referred to in this nd are not annexed to this report):					
	Descrip	tion, Pages				
	1-8		as originally filed			
	Claims,	Numbers				
	1-8		received on 31.01.2006 with letter of 27.01.2006			
	Drawinç	js, Sheets				
	1/5-5/5		as originally filed			
	□as	equence listing an	l/or any related table(s) - see Supplemental Box Relating to Sequence Listing			
3.		 ☐ The amendments have resulted in the cancellation of: ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify): 				
4.	had not Supple	t been made, since mental Box (Rule 7 the description, pathe claims, Nos. the drawings, she the sequence listing any table(s) relate	ges ets/figs g <i>(specify)</i> : d to sequence listing <i>(specify)</i> :			
	* If	item 4 appli ϵ	s, some or all of these sheets may be marked "superseded."			

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-8

No: Claims

Inventive step (IS)

Yes: Claims

Claims

1-8

Industrial applicability (IA)

Yes: Claims

No:

1-8

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Cited Documents

1. Reference is made to the following documents:

D1: US-A-6 108 559 D2: US-A-6 654 589 D3: WO 03/049461 A2

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- A. Clarity (Article 6 PCT):
- dependent Claims 2 and 5:
 Dependent Claims 2 and 5 lack clarity within the meaning of Article 6 PCT for the following reason:
- 1.1 Both dependent Claims 2 and 5 define that the <u>HLR includes a settable flag for controlling the availability of text message processing</u>. Said subject-matter of Claims 2 and 5 is claimed in combination with that of independent Claims 1 and 4 which both define that the <u>HLR stores subscriber specific information</u> so as to control the availability of text message processing.

Claims 2 and 5 in combination with Claims 1 and 4 thus convey the impression that two pieces of information are used for controlling the availability of text message processing, namely <u>subscriber specific information</u> as well as a <u>settable flag</u>.

This is however not supported in the description, where the use of a single field in the HLR subscriber data record, namely the "class of service field", is disclosed for this purpose.

1.2 It would have been thus necessary to clearly define in said dependent Claims 2 and 5 that the subscriber specific information defined in independent Claims 1 and 4

is implemented as a <u>settable flag stored in the HLR</u> in order to overcome the clarity objection (Article 6 PCT).

- B. Novelty / Inventive Step (Article 33 PCT):
- 1. independent Claim 1:
- 1.1 It is noted that the document **D3** cited in the application is regarded as being the closest prior art to the subject-matter of **Claim 1** and shows a "telecommunications service apparatus for use in a mobile telecommunications network" (**D3**, Figs. 3 and 4: "SMS Router"; page 1, line 29 page 2, line 6; Claim 1) with the following features as defined in **Claim 1** of the present invention:
 - processing means for processing received text messages (D3, Claim 1; page 6, lines 14-20)
 - call routing means operable to receive a routing information request signal indicative of a text message intended for a mobile terminal (D3, Claim 1; page 5, lines 19-28; Fig.3)
 - <u>call routing means operable to return a routing information response signal</u> <u>indicative of the telecommunications service apparatus instead of being indicative of the intended mbile terminal</u> (**D3**, Claim 1; page 5, lines 28-32; Fig.3)
- 1.2 The telecommunications service apparatus defined in present Claim 1 appears to differ from the disclosure of document D3 only in that D3 does not explicitly show that the call routing means is operable to control the availability of processing of the text message based on subscriber specific information [1] and that this subscriber specific information is stored in a HLR of the network [2].
- 1.3 It would be clear to the person skilled in the art that the <u>telecommunications service</u> <u>apparatus</u> known from **D3** suffers from the <u>drawback</u> that the text message **diversion** and processing functions can not be selectively offered to subscribers. From the disclosure of document **D3** it appears that **either all or none** of the routing information request signals are "intercepted" and **diverted** for subsequent

processing by the telecommunications service apparatus.

- 1.4 In consulting the prior art, the skilled person would come across documents **D1** and/or **D2**, which both disclose a similar technique for **diversion and processing** of mobile terminated short text messages.
 - Both documents **D1** and **D2** explicitly disclose to selectively activate said **diversion** and processing function for mobile terminated short messages by consulting subscriber specific information ("marked subscribers/flagged subscribers") stored in the HLR of the subscriber. Reference is made to **D1**, col.5, lines 24-30 and **D2**, col.5, lines 4-8. Both documents **D1** and **D2** thus disclose features [1] and [2] of independent **Claim 1** as identified above under item 1.2.
- 1.5 To a skilled person, therefore, starting from the <u>telecommunications service</u> apparatus defined by **D3** and being aware of the disclosure of **D1** or **D2**, it would be obvious to apply the approach described in **D1** or **D2** to the <u>telecommunications</u> service apparatus of **D3**, in order to allow subscriber selective activation of the diversion and processing function and he would thus arrive at a <u>telecommunications service apparatus</u> corresponding to the subject-matter of **Claim** 1.
 - The subject-matter of Claim 1 therefore lacks an inventive step within the meaning of Article 33(3) PCT.
- 1.6 It is in addition noted that documents **D1** and **D2** do no longer prejudice **novelty** (Article 33(2) PCT) of independent **Claim 1**, since **Claim 1** explicitly defines that the **diversion function**, the **control of availability of the processing function** as well as the **processing function** are all carried out by the same entity, namely by the <u>telecommunications service apparatus</u>.
 - In documents **D1** and **D2** it is the HLR which carries out the **diversion function** and it is a different entity (**D1**: "SMSC-B"; **D2**: "Legal Interception Node-LIN") to which the text message is sent for further **processing**.

Independent Claim 1 is thus novel vis-à-vis both documents D1 and D2 (Article 33(2) PCT).

- 2. dependent Claims 2 and 3:
- 2.1 The additional features of dependent Claims 2 and 3 do not add anything of inventive significance (Article 33(3) PCT) to those claims to which they are appended, as they refer only to minor implementing details which are disclosed in or obviously derivable from the cited prior art references D1, D2 or D3 or fall within the general knowledge of a person skilled in the art:
- (a) Claim 2: D1, col.5, lines 24-30
- (b) **Claim 3**:

D3, page 6, lines 17-20

D2, col.5, lines 4-8

D1, col.3, lines 31-37 and 48-53; "... media conversion, ... copying and distribution ..." **D2**, col. 5, lines 57-59; "... a short message SM is sent to the LIN which forwards it to the SGSN and sends a copy thereof to the LEA ..."; Fig.3: "step 3-9"

- 2.2 The dependent Claims 2 and 3 do thus not meet the requirements of Article 33(3) PCT.
- 3. independent Claim 4 and dependent Claims 5 and 6:
- The features of independent Claim 4 and dependent Claims 5 and 6 ("telecommunications services method") correspond to the features of independent Claim 1 and dependent Claims 2 and 3("telecommunications service apparatus").
- The arguments concerning **novelty** (Article 33(2) PCT) and **inventive step** (Article 33(3) PCT) as set out above regarding **Claims 1-3** therefore equally apply to said **Claims 4-6** respectively, which do thus also not meet the requirements of Article 33(3) PCT.
- 4. re Claims 7 and 8:

PCT/GB2005/001227

4.1 The features of independent Claims 7 and 8 ("computer program" and "computer program product") correspond to the features of independent Claims 4-6 ("method"). Independent Claims 7 and 8 do not provide any additional technical features. The arguments concerning novelty (Article 33(2) PCT) and inventive step (Article 33(3) PCT) as set out above regarding Claims 4-6 therefore equally apply to said Claims 7 and 8, which do thus also not meet the requirements of Article 33(3) PCT.

C. Further Deficiencies / Defects:

- 1. The independent claims are not draft in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art document **D3** being placed in a preamble (Rule 6.3(b)(I) PCT) and with the remaining features being included in a characterising part (Rule 6.3(b)(ii) PCT).
- 2. Contrary to the requirements of Rule 5.1.(a) (ii) PCT, the relevant background art disclosed in the documents **D1** and **D2** noted above is not mentioned in the description, nor are these documents identified therein.
- 3. The opening part of the description has not been brought into agreement with the wording of the Claims (Rule 5.1 (a) (iii) PCT).

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CLAIMS

1. A telecommunications services apparatus for use in a mobile telecommunications network, the apparatus comprising:

processing means for processing received text messages; and call routing means operable:

to receive a routing information request signal indicative of a text message intended for a mobile terminal;

to return a routing information response signal indicative of the telecommunications services apparatus instead of being indicative of the intended mobile terminal; and

to control availability of processing of the text message based on subscriber specific information;

wherein the network includes a home location register storing said subscriber specific information so as to control the availability of text message processing.

- 2. Apparatus according to claim 1, wherein the home location register includes a settable flag for controlling the availability of the text message processing.
- 3. Apparatus according to claim 1 or claim 2, wherein the text message processing includes copying and/or diversion of the text message, interception of the text message, providing location privacy, anti-spam protection, access to diverted messages, and/or access to messages from other messaging systems.
- 4. A telecommunications services method for a mobile telecommunications network, the method comprising:

receiving in a telecommunications services apparatus a routing information request signal indicative of a text message intended for a mobile terminal;

returning a routing information response signal indicative of the telecommunications services apparatus instead of being indicative of the intended mobile terminal; and

controlling availability of processing of the text message based on subscriber specific information;

wherein the network includes a home location register storing said subscriber specific information so as to control the availability of text message processing.

5

- 5. A method according to claim 4, wherein the home location register includes a settable flag for controlling the availability of the text message processing.
- 6. A method according to claim 4 or claim 5, wherein the text message processing includes copying and/or diversion of the text message, interception of the text message, providing location privacy, anti-spam protection, access to diverted messages, and/or access to messages from other messaging systems.
- 7. A computer program having computer executable instructions, which when loaded on to a computer is operable to cause the computer to perform the method according to any one of claims 4 to 6.
- 8. A computer program product having a computer readable medium having recorded thereon information signals representative of the computer program according to claim 7.